

**INTERNATIONAL SEARCH REPORT**

International application No.

PCT/IN04/00283

**A. CLASSIFICATION OF SUBJECT MATTER**

IPC(7) : G06F 9/46, 13/00, 13/14, 13/36, 13/40, 15/00  
 US CL : 710/123, 40, 105, 51, 107, 41; 712/29; 370/402, 431, 537; 709/207; 714/48; 340/2.1  
 According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)  
 U.S. : 710/123, 40, 105, 51, 107, 41; 712/29; 370/402, 431, 537; 709/207; 714/48; 340/2.1

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)  
 WEST; USPT, US OCR, EPO ABS; JPO ABS, DWPI, IBM TDB; EAST; USPT; NPL; IEEE Xplore

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4,870,704 A (MATELAN et al) 26 September 1989 (26.09.1989), column 2, line 39 - col. 14, line 57.	1-5 and 13
--		-----
A		6-12 and 14-21
A	US 5,564,025 A (De Freese et al) 08 October 1996 (08.10.1996), column 1, line 49 - col. 3, line 54.	1-21
A	US 5,579,406 A (MORIKAWA) 26 November 1996 (26.11.1996), Fig. 1.	1-21
A	US 5,261,105 A (POTTER et al) 09 November 1993 (19.11.1993), abstract.	1-21
A	RE38,428 E (KELLY et al) 10 February 2004 (10.02.2004), column 3, line 51 - col. 4, line 11.	1-21

Further documents are listed in the continuation of Box C.

See patent family annex.

\* Special categories of cited documents:

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier application or patent published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

"T"

later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X"

document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y"

document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&"

document member of the same patent family

Date of the actual completion of the international search

28 April 2005 (28.04.2005)

Date of mailing of the international search report

11 MAY 2005

Name and mailing address of the ISA/US

Mail Stop PCT, Attn: ISA/US  
 Commissioner for Patents  
 P.O. Box 1450  
 Alexandria, Virginia 22313-1450  
 Facsimile No. (703) 305-3230

Authorized officer

Gopal C. Ray

Telephone No. (571) 272-3631